Claims

1	1. A network router having an internal automated backup, comprising:
2	a primary port facility;
3	a card array having at least one backup router card; and
4	a switched fabric, wherein the switched fabric automatically replaces a
5	failed router card connected to the primary port facility with a backup router card
	from the card array.
	2. The router of claim 1, wherein the primary port facility comprises a primary
'`` 2 ^{'`} `	processor and a secondary processor.
1	3. The router of claim 1, wherein the primary port facility has serial connection ports for connecting to router cards.
1	4. The router of claim 1, wherein the switched fabric comprises:
2	an information system for receiving a failure message from the primary
3	port facility; and
4	a switching system for mechanically replacing the failed router card with
5	the backup router card in response to the failure message.

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- 5. The router of claim 4, wherein the information system includes a bus for communicating routing information between the primary port facility and the card array.
- 6. The router of claim 4, wherein the switching system includes a replacement mechanism for mechanically replacing the failed router card with the backup router card.
- 7. The router of claim 1, wherein the failed router card is moved into an expanded bay by the switched fabric.

1	8. A network router having an internal automated backup, comprising:
2	a primary port facility;
3	a card array having at least one backup router card; and
4	a switched fabric for automatically replacing a failed router card
5	connected to the primary port facility with a backup router card from the card
6	array, wherein the switched fabric includes an information system for receiving a
7	failure message from the primary port facility and a switching system for
8, 10 5	replacing the failed router card with the backup router card.
8 	9. The router of claim 8, wherein the primary port facility includes a primary processor and a secondary processor.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10. The router of claim 8, wherein the switching system includes a replacement mechanism for mechanically replacing the failed router card with the backup router card.
1	11. The router of claim 8, wherein the information system includes a bus for
2	communicating routing information between the primary port facility and the card

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array.

- 1 13. The router of claim 8, wherein the failed router card is moved into an
- 2 expanded bay by the switched fabric.

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1	14. A network router having an interna
2	a primary port facility having a
3	processor;
4	a card array having backup rou
5	a switched fabric for automatic
6	connected to the primary port facility v
7	array, wherein the switched fabric inclu
8 1-1-1 1-1-1-1	failure message from the primary port
91.5	mechanically replacing the failed route
1 1.1	15. The router of claim 14, wherein the
2	replacement mechanism that connects
].=b 3 /=1	primary port facility and the card array

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al automated backup, comprising: primary processor and a secondary

ter cards; and

ally replacing a failed router card vith a backup router card from the card udes an information system for receiving a facility and a switching system for er card with the backup router card.

- e switching system comprises a and disconnects router cards from the
- 16. The router of claim 15, wherein the router cards connect to the primary port facility and the card array via male-female connections.
- 17. The route of claim 14, wherein the information system includes a bus that communicates routing information between the primary port facility to the card array.
- 18. The router of claim 14, wherein the failed router card is moved into an expanded bay by the switched fabric.

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